

PART 226

SOLVENT METAL CLEANING PROCESSES

(Statutory authority: Environmental Conservation Law, §§ 3-0801, 10-0801, 10-0803)

Sec.	Sec.
226.1 Definitions	226.4 Reasonably available control technology
226.2 General requirements	226.5 Compliance
226.3 Equipment specifications	226.7 Exemptions
226.4 Operating requirements	

Historical Note

Part filed April 28, 1972; repealed, new (NY 226.1-226.5) filed May 17, 1972; repealed, filed Aug. 27, 1974; new (NY 226.1-226.7) filed July 24, 1975 eff. 30 days after filing.

Section 226.1 Definitions: (a) **Cold cleaning degreasing.** Batch process of solvent metal cleaning by spraying, brushing, flushing or immersion while maintaining the solvent below its boiling point. Wipe cleaning is not included in this definition.

(b) **Conveyorkized degreasing.** Continuous process of solvent metal cleaning by operating with either cold or vaporized solvents.

(c) **Freeboard height.** Distance from the top of the vapor zone to the top of the degreaser tank. On cold cleaners, it is the distance from liquid level to lip of tank.

(d) **Freeboard ratio.** Freeboard height divided by the width of the degreaser tank.

(e) **Open-top vapor degreasing.** Process of solvent metal cleaning by condensing hot solvent vapor on the colder metal parts.

(f) **Solvent metal cleaning.** Process of clearing soils from metal surfaces by using a volatile organic compound.

Historical Note

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; return, 226.2, new filed Jan. 18, 1973; repealed, filed Aug. 27, 1974, new filed July 24, 1975 eff. 30 days after filing.

226.2 General requirements. No person shall conduct solvent metal cleaning unless:

- (a) Solvent is stored in covered containers and waste solvent is transferred or disposed of in such manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) Equipment used in solvent metal cleaning is maintained to minimize leaks and fugitive emissions.
- (c) Equipment used in solvent metal cleaning displays a conspicuous summary of proper operating procedures consistent with minimizing emissions of volatile organic compounds.
- (d) Equipment covers are closed when the solvent metal cleaning unit is not in service.
- (e) A record of solvent consumption shall be maintained for each year and made available to the commissioner or his representative upon request.

Historical Note

Sec. Filed April 25, 1972; repealed, new filed May 17, 1972; repealed, new added by return, and amnd. 226.1, Filed Jan. 18, 1973; repealed, filed Aug. 27, 1974; new filed July 24, 1979 eff. 30 days after filing.

226.3 Equipment specifications. Except where otherwise permitted by the commissioner, the following devices are required by a source owner conducting solvent metal cleaning:

- (a) Cold cleaning degreasing.
 - (1) A cover shall be provided which can be operated easily.
 - (2) The drainage facility shall be internal (under cover), if practical.
 - (3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.7, or a water cover where the solvent is insoluble in and heavier than water, where the solvent being used has a vapor pressure greater than 21mm Hg at 25 degrees C (100 degrees F) or where the solvent is heated above 50 degrees C (120 degrees F).
- (b) Open-top vapor degreasing.
 - (1) The cover shall be operated easily without disturbing the vapor zone.
 - (2) Safety switches shall shut off sump heat if the condenser malfunctions and shall shut off the pump if vapor level drops excessively.
 - (3) One of the following shall be provided:
 - (i) a freeboard ratio that is greater than or equal to 0.75, and a powered or mechanically assisted cover if the top opening is greater than 10 square feet;
 - (ii) a refrigerated chiller;
 - (iii) local exhaust ventilation and an adsorption or other system for collection of volatile organic compounds; or
 - (iv) an enclosed design whereby the cover is open only when the dry part is entering or exiting the degreaser.
- (c) Conveyerized degreasing.
 - (1) One of the following shall be provided:
 - (i) a refrigerated chiller; or
 - (ii) local exhaust ventilation and an adsorption or other system for collection of volatile organic compounds.

- (2) A drying tunnel, rotating basket or other device acceptable to the commissioner shall be provided which prevents carry-out of liquid and vapor.
- (3) Safety switches shall be provided which shut off the system when a malfunction would cause excessive emissions.
- (4) Minimize openings at the entrance and exit to silhouette work and conveyor.
- (5) Covers shall be provided to close the unit during downtime.

Historical Note

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 18, 1973; repeated, filed Aug. 27, 1974; new filed July 31, 1975 eff. 30 days after filing.

226.4 Operating requirements. Except where otherwise permitted by the commissioner, the following operating practices are required by a source owner conducting solvent metal cleaning:

- (a) **Cold cleaning degreasing.** Clean parts shall be drained at least 15 seconds or until dripping ceases.
- (b) **Open-top vapor degreasing.** (1) Minimize solvent carryout by the following measures:
 - (i) rack parts to allow full drainage;
 - (ii) move parts in and out of degreaser tank at less than 11 ft/min;
 - (iii) degrease the work load in the vapor zone at least 30 seconds or until condensation ceases;
 - (iv) tip out any pools of solvent before removal; and
 - (v) dry parts for at least 15 seconds or visually dry before removal.
- (2) Degrease only nonporous or nonabsorbent material.
- (3) Work loads shall not occupy more than half of degreaser tank open-top area.
- (4) Spray only below the vapor level.
- (c) **ConveyORIZED degreasers.** (1) Exhaust ventilation rate shall not exceed 125 percent of the minimum ventilation rate required for the protection of workers in the vicinity of the degreaser.
- (2) Minimize carry-out emissions by:
 - (i) proper racking for best drainage; and
 - (ii) conveyor speed at less than 11 ft/min.
- (3) Water shall not be visibly detectable in the solvent leaving in the water separator.

Historical Note

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 18, 1973; repeated, filed Aug. 27, 1974; new filed July 31, 1975 eff. 30 days after filing.

226.5 Reasonably available control technology. Where it can be shown to the satisfaction of the commissioner that a solvent metal cleaning process cannot be controlled to comply with sections 226.2, 226.3 and 226.4 of this Part for reasons of technological and economic feasibility, the commissioner may accept a lesser degree of control upon submission of satisfactory evidence that the source owner has applied reasonably available control technology and has a plan to develop the technologies necessary to comply with the aforementioned sections. Such evidence shall be submitted with the renewal application for a certificate to operate for an existing source under provisions of Part 201 of this Subchapter.

Historical Note

Sec. filed April 28, 1972; repealed, new filed May 17, 1972; amd. filed Jan. 18, 1973; repeated, filed Aug. 27, 1974; new filed July 31, 1975 eff. 30 days after filing.

226.6 Compliance. Any person subject to this Part is required:

- (a) to submit to the commissioner on June 1, 1980 a proposed schedule which shows the action steps and dates necessary to reach compliance with the provisions of this Part; and
- (b) on January 1, 1981, or such later date as determined by an order of the commissioner, to be in compliance with the provisions of this Part.

Editorial Note

Sec. 226.6 July 24, 1979 eff. 30 days after filing.

226.7 Exemptions. (a) This Part shall not apply to:

- (1) conveyorized degreasers smaller than 22 square feet (2.0 m^2) of air/vapor interface;
- (2) open-top vapor degreasers smaller than 11 square feet (1.0 m^2) of open area; or
- (3) solvent cleaning processes utilizing 1,1,1 trichloroethane (methyl chloroform), trichlorotrifluoroethane (freon 113) and methylene chloride.

Editorial Note

Sec. 226.7 July 24, 1979 eff. 30 days after filing.